



TAGEM
R&D AND INNOVATION

INTERNATIONAL AGRICULTURAL RESEARCH
AND TRAINING CENTER / MENEMEN-IZMIR

Mehmet GUNDUZ

Agricultural Engineer

EDUCATION

- MSc** 1994-1996 Harran University, Faculty of Agriculture
- Bachelor's Degree** 1980-1984 Atatürk university, Faculty of Agriculture

ABOUT ME

I was born in 1961 Kusu Town, Simav in Kutahya. He graduated from Atatürk University Faculty of Agriculture in 1984


CAREER

- 2011-....- Engineer - General Directorate of Agricultural Research and policy, International Agricultural Research and Training Center, Menemen
- 2006-2011 – Engineer - General Directorate of Agricultural Research, Soil and Water Resources Menemen Research Institute
- 2005-2006 - Deputy Director – Soil and Water Resources Menemen Research Institute
- 2004-2005 - Deputy Director - General Directorate of Rural Services, Menemen Research Institute
- 1996-2004 –Engineer - General Directorate of Rural Services, Menemen Research Institute.
- 1990-1996 – Engineer - General Directorate of Rural Services, Sanliurfa Research Institute.
- 1987-1990 –Engineer - General Directorate of Agricultural Enterprises. Koçaş Farm, Aksaray

CONTACT

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▪ **PROJECTS**

▪ **Projects Conducted**

1. Investigation of the possibility of using drip irrigation in rice. Assistant Researcher. GDARP.
2. Determination of Drip Irrigation Systems Performance Established in Manisa Region. Assistant Researcher. GDARP.
3. Creating Irrigation Program for Processing Tomato Irrigated by Subsurface Drip Irrigation in Menemen Conditions. Assistant Researcher. GDARP.
4. Farming Tools for External Inputs and Water Management. Assistant Researcher. EU.
5. Determination of evapotranspiration of alfalfa by irrigated subsurface drip irrigation. Assistant Researcher. GDARP.
6. Use of Automation and Artificial Neural Networks in Greenhouse Tomato Irrigation. Assistant Researcher. GDARP.
7. The Determination of Treated Waste Water's Usability for Pepper and Lettuce Irrigate by Different Irrigation Methods. Assistant Researcher. GDARP.
8. Determination of Effects of N and P fertilizers applied by Fertigation Method on the Yield and Some Quality Characteristics of pepper. Assistant Researcher. GDARP.
9. Composing of Irrigation Program by Sub-Surface Drip Irrigation Systems for Cotton and Corn. Assistant Researcher. GDARP.
10. The Effects of Irrigation Applications With Treated Municipal Waste Water on Some Soil and Plant Properties. Project Leader. GDRAP.
11. Evaluation of Temporal and Spatial Variation of the Water Table in Menemen Left Bank Irrigation Area Using Geostatistical Methods. Assistant Researcher. GDARP.
12. Evaluation of Drought Tolerance for Cowpeas originated of the Aegean and Mediterranean Regions. Assistant Researcher. GDARP.
13. Using of Updatable Land Information System for Soil and Water Management on Irrigation Scheme Level. Assistant Researcher. TUBITAK -1001.
14. Determining The Water Distribution Performance on Farm and Tertiary Canal Level in Menemen Left Bank Irrigation System. Assistant Researcher. GDARP.
15. Comparing of Furrow and Alternate Furrow Irrigation Applications for Cotton. Project Leader. GDARP.
16. Using of Plant Internal Water Status and Canopy Temperature Measurements on Cotton Irrigation. Assistant Researcher. GDARP.



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17. Determination of Salt Tolerant Cotton Varieties. Assistant Researcher. GDARP.
18. Peaches Drip Irrigation Program in Aegean Region. Project Leader. GDARP.
19. Requirements of Nitrogenous Fertilizer of Peaches in the Aegean Region. Assistant Researcher. GDARP.
20. The Vineyard Irrigation Programme by Drip Irrigation on Gediz Basin Conditions. Project Leader. GDARP.
21. Effects of Early Cultivation of cotton by Plastic mulching technique on Water Conservation, Crop Yield and Quality. Assistant Researcher. GDARP.
22. Relationships Between Yield and Water of Corn on Balikesir Conditions. Project Leader. GDARP.
23. Relationships Between Yield and Water of Second Crop Corn on The Conditions In The Harran Plain in The GAP Region. Assistant Researcher. GDARP.
24. The Requirements of Nitrogenous and phosphorus Fertilizer of Second Crop Sunflower in Harran Plain Conditions. Project Leader. GDARP.
25. Comparison of Point and Line Source Sprinkler Techniques for obtaining Water Yield Production Functions in Second Crop Soybean Irrigation. Assistant Researcher. GDARP.
26. Determination of the Effect of Deficit Irrigation Water Application on Cotton Yield in the Conditions of Harran Plain in GAP region. Assistant Researcher. GDARP.
27. Irrigation of Some Crops (wheat, cotton, groundnuts, tomatoes, peppers, and second crop corn) by Bottom-Spoofing (porus pipe) Method. Assistant Researcher. GDARP.
28. According to Evaporation, Using Class A Pan, Water Consumption of Watermelon on Harran Plain Conditions in GAP Region. Project Leader. GDARP.
29. Water Consumption of Second Crop Sunflower in Harran Plain Conditions in GAP Region. Project Leader. GDARP.
30. Effects of Different Irrigation Methods on Yield of cotton and Water Use in the Harran Plain Conditions. Assistant Researcher. GDARP.
31. Water Consumption of Eggplants in Harran Plain Conditions. Assistant Researcher. GDARP.
32. Water Requirement of Second Crop Maize on Harran Plain Conditions. Assistant Researcher. GDARP.



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▪ Ongoing Projects

1. Determination of the effects of water use taken from different resources on soil and plant, Menemen - Izmir Implementation. Project Leader. GDWM.
2. Developing a Digital Irrigation Management System for Wheat Crops in the Aegean Region. Assistant Researcher. GDARP.
3. Developing a Digital Irrigation Management System for maize Crops in the Aegean Region. Assistant Researcher. GDARP.
4. Determining of Western Mediterranean Basin Esen Stream Water Quality and Evaluation in Terms of Agricultural Irrigation, Assistant Researcher. GDARP.
5. Adaptation Toolkit to Change on Irrigated Agriculture. Assistant Researcher. (ATIC).
6. Determination of Irrigation Water Needs with Optimum Plant Pattern in the Western Mediterranean Basin and Creation of Strategic/Political Decision Support Tools (BAKAROL), Assistant Researcher. GDARP.
7. The Effect of Different Nitrogen Applications with Subsurface Fertigation Method on Corn Yield and Some Quality Traits, Assistant Researcher. GDARP.



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▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

1. **GUNDUZ, M.**, KORKMAZ, N. ASIK, S 2016.Effects of Irrigation with Treated Domestic Wastewater on Various Chemical Properties of the Soil. Hungarian Agriculture Engineering. HU ISSN 0864-7410. DOI: 10.17676/HAE.2016.29.44. Hungary.
2. KORKMAZ, N., **GUNDUZ, M.**, ASIK, S.2015. Temporal and Spatial Variations of Groundwater Level and Salinity: A Case Study in The Irrigated Area of Menemen Plain in Western Turkey. Hungarian Agriculture Engineering. HU ISSN 0864-7410. DOI: 10.17676/HAE.2015.28.39 Hungary.
3. **GUNDUZ, M.** N. KORKMAZ,S. ASİK, H. B. UNAL, AND M. AVCİ. 2011.The Effects Of Various Irrigation Regimes On Soil Water Balance, Yield And Fruit Quality Of Drip Irrigated Peach Trees. ASCE Journal Of Irrigation And Drainage Engineering. 137(7)426-434, July.
4. KORKMAZ N., AVCİ M., UNAL H.B., ASIK Ş. AND **GUNDUZ M.**, 2009. Evaluation of the Water Delivery Performance of the Menemen Left Bank Irrigation System Using Variables Measured On-Site. ASCE Journal of Irrigation and Drainage Engineering, 135(5)633-643, October.2009

• **International Papers, Seminars, etc.**

1. **GUNDUZ, M.**, TARI AKAP, P. KORKMAZ, N., OZCELIK,S,. YUZBASİ, S. 2021. Effects Of Irrigation With Water From Different Sources On Various Chemical Properties Of The Soil. III. Balkan Agriculture Congress. 29 August-1 September 2021. Edirne.
2. **GUNDUZ, M.**, TARI AKAP, P. KORKMAZ, N., ALKAN, U. 2021. Temporal Variations İn Thelevels And Quality Of Groundwater İn The Agricultural Areas İn Menemen Left Bank Irrigation System. III. Balkan Agriculture Congress. 29 August-1 September 2021. Edirne.
3. **GUNDUZ, M.**, TARI AKAP, P. KORKMAZ, N., ARAS,S. ve OZCELIK,S. 2021. Productivity Status Of Agricultural Lands İn Left Bank Irrigation Of Menemen Plain. III. Balkan Agriculture Congress. 29 August-1 September 2021. Edirne.
4. **GUNDUZ, M.**, TARI AKAP, P. SEN,S., ARAS,S. ve YUZBASİ,S 2019. The Change of Some Physical and Chemical Properties of Agricultural Lands in the Far Sea Regions of the Menemen Plain according to Soil Layers. International Agriculture and Forestry Congress. Hasat. 21-23 Haziran 2019. Ankara.
5. **GUNDUZ, M.**, TARI AKAP, P. SEN,S., OZCELIK, S ve GOCMEZ, S 2019. The Effects of Irrigation Applications With Refined Municipal Waste Water on Some Soil Microbiology and Biochemical Properties. International Agriculture and Forestry Congress. Hasat. 21-23 June 2019. Ankara



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6. **GUNDUZ, M.**, TARI AKAP, P. SEN, S. 2019. Productivity Status of Agricultural Lands Near the Sea in the Left Bank Irrigation of the Menemen Plain. **1st International Erciyes Agriculture, Animal and Food Sciences Conference (AgAnFoS2019)**. 24-27 April 2019. Erciyes University, Kayseri-Turkiye (poster)
7. **GUNDUZ, M.**, TARI AKAP, P. SEN, S. KORKMAZ. N ve ASIK, S. 2019. Soil Layers' Boron situation of Agricultural Areas close to the Sea and inland of Menemen Plain. **1st International Erciyes Agriculture, Animal and Food Sciences Conference (AgAnFoS2019)**. 24-27 April 2019. Erciyes University, Kayseri-Turkiye.
8. **GUNDUZ, M.**, TARI AKAP, P., SEN, S ve ARAS, S. 2019. The Statistical Effect of Irrigation with Water from Different Sources on the Relationships Between Some Soil Properties. 6th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.
9. **GUNDUZ, M.**, TARI AKAP, P. KORKMAZ. N. ÖZCELİK, S ve ASIK, S. 2019. Contribution of High Groundwater Level to Cotton Water Consumption in the Far Sea Regions of the Menemen Plain. 6th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.
10. SEN, S., **GUNDUZ, M.**, YUZBASİ, S.2019. The Effect of Different Irrigation Applications on Cotton Yield in Cotton Irrigated with Subsurface Drip Irrigation. 6th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.
11. UNER. K., **GUNDUZ, M.**, ERDAL, Ü. 2019. Nitrogen Fertilizer Requirement of Peach in Aegean Region. 6th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.
12. CANDAN, N., ÜNER. K., **GÜNDÜZ, M.**, KARAGÜL, V., UZUN, N., ŞEN,O.F., VE EŞİYOK,D. 2019. Effect of Nitrogen Applied by Fertigation Method on Vitamin C Level of Paste Pepper. 6th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.
13. TARI AKAP, P., **GÜNDÜZ,M.**, AŞIK,Ş., ÖZÇELİK,Ş. 2019. Arıtılmış Eysel Kaynaklı Atıksularla Sulanan Marul ve Toprakta Patojenik Bulaşıklığın Belirlenmesi. 6. Uluslararası Katılımlı Toprak ve Su Kaynakları Kongresi. 12-14 Kasım 2019. Menemen
14. ARAS, S., YUZBASİ, S., OZCELIK, S., CANDAN, N. ALKAN, U., **GUNDUZ, M.**, TARI AKAP, P., SEN, F.. Effect Of Different Subsurface Drip Irrigation Applications On Some Quality Parameters Of Tomato. 3rd International Conference On Food And Agricultural Economics, 25-26 Nisan, 2019 Alanya.
15. YÜZBAŞI, Ş., ARAS, S., ŞEN, S., ÖZÇELİK, Ş., ALKAN, Ü., **GUNDUZ, M.** Effects Of Different Subsurface Drip Irrigation Applications On Yield And Quality Parameters Of Alfalfa. 3thInternational Conference on Food and Agricultural Economics 25-26th April 2019, Alanya, Turkey
16. UNER. K., **GUNDUZ, M.**, ERDAL, U. 2019. Phosphorous Fertilizer Requirement of Peach in Aegean Region. 6th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.
17. ARAS, S. YUZBASİ, S. OZCELIK, S. CANDAN, N. ALKAN, U. **GUNDUZ, M.** TARI AKAP, P. ŞEN, F. Effect of Different Irrigation Levels Effect Applied By Subsurface Drip Irrigation on Vitamin C Content of Tomato. 6th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.



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18. **GUNDUZ, M.**, TARI AKAP, P. KORKMAZ, N. ASIK, S., 2018. Effects of Irrigation with Water from Different Sources On Some Chemical Properties of the Soil. 29th International Scientific – Expert Conference of Agriculture and Food Industry. Programme Book. P 11. 2018. Çeşme-İzmir.
19. **GUNDUZ, M.**, TARI AKAP, P. KORKMAZ, N. SEN, S., 2018. The Effect of Drip Irrigation and Different Irrigation Applications on Soil Moisture Change in the Root Area of Maize. 29th International Scientific – Expert Conference of Agriculture and Food Industry. Programme Book. P 23. Çeşme-İzmir.
20. TARI AKAP, P., **GUNDUZ, M.**, AŞIK, Ş., ÖZÇELİK., Ş., 2018. Pathogenic Contamination on Lettuce and Soil Irrigated by Treated Domestic Waste Water. 29th International Scientific – Expert Conference of Agriculture and Food Industry. Programme Book. P 11. Çeşme-İzmir.
21. SEN, S., **GUNDUZ, M.**, YÜZBASİ, S., 2018. The Effect of Subsurface Drip Irrigation and Different Irrigation Applications on Corn Grain Yield. 5th International Dam Safety Symposium (Ali Numan Kıraç Workshop). 27 October- 01 November 2018. Istanbul
22. TARI AKAP, P., KORKMAZ, N. **GUNDUZ, M.**, SEN, S., OZCELİK., S., ., ARAS, S., RAHMANOĞLU, N., ASIK, S., SEN, F., ATES, M. 2018. The Use of Treated Wastewater in the Cultivation of Pepper and Lettuce with Different Irrigation Methods. International Agricultural Research and Education Center Directorate. Project Final Report. TAGEM/TSKAD/13/A13/P02/3. Menemen- İzmir
23. **GUNDUZ, M.**, KORKMAZ, N. SEN, S., TARI AKAP, P. 2017. Water – Yield Relationship of Corn Irrigated by Drip Irrigation System. 5th International Participation Soil and Water Resources Congress. 12-15 September 2017. Abstracts Book. p.72. Kırklareli. www.topraksukongresi2017.org
24. **GUNDUZ, M.**, KORKMAZ, N. TARI AKAP, P., SEN, S., ASIK, S. 2017. The Effects of Some Plant Nutrient Changes on Cotton Irrigated by Domestic Sourced Treated Wastewater. 5th International Participation Soil and Water Resources Congress. 12-15 September 2017. Abstracts Book. p.229. Kırklareli. www.topraksukongresi2017.org
25. TARI AKAP, P., ÖZÇELİK, S., **GUNDUZ, M.**, RAHMANOĞLU, N. 2017. The Investigation of Pathogenic Contamination of Lettuce by Treated Domestic Waste Water. 5th International Participation Soil and Water Resources Congress. 12-15 September 2017. Abstracts Book. p.97. Kırklareli. www.topraksukongresi2017.org
26. **GUNDUZ, M.**, KORKMAZ, N. ASIK, S 2015. Effects of Irrigation with Treated Domestic Wastewater On Various Chemical Properties of the Soil. Synergy International Conferences. Engineering, Agriculture and Green Industry Innovation. Gödöllő, Hungary. <http://synergy2015.hu/>
27. KORKMAZ, N., **GUNDUZ, M.**, ASIK, S., 2015. Temporal and Spatial Variations of Groundwater Level and Salinity: A Case Study in The Irrigated Area of Menemen Plain in Western Turkey. Synergy International Conferences. Engineering, Agriculture and Green Industry Innovation. Gödöllő, Hungary. <http://synergy2015.hu/>



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28. **GUNDUZ, M.**, KORKMAZ, N. SEN, S., ASIK, S., 2015. Effects of Irrigation with Domestic Treated Wastewater on Heavy Metals and Micro-Elements Change within Cotton Plants. International Soil and Water Resources Congress 01-04 September 2015. Kahramanmaraş. www.topraksukongresi2015.org
29. **GUNDUZ, M.**, KORKMAZ, N. SEN, S., ASIK, S., ARAS, S 2015. Effects of Different Quality of Irrigation Water on Some Properties of Vetch Plant. International Soil and Water Resources Congress 01-04 September 2015. Kahramanmaraş. www.topraksukongresi2015.org
30. KORKMAZ, N., **GUNDUZ, M.**, SEN, S., OZDEN, N.2015. Geostatistical Approach on Seasonal Variation of Groundwater Depth and Salinity in İzmir-Menemen Plain. International Soil and Water Resources Congress 01-04 September 2015. Kahramanmaraş. www.topraksukongresi2015.org
31. OZDEN, N., KORKMAZ, N. **GUNDUZ, M.** 2015. Water Distribution Performance at Drought Years in Menemen Irrigation System. International Soil and Water Resources Congress 01-04 September 2015. Kahramanmaraş. www.topraksukongresi2015.org
32. **GUNDUZ, M.**, KORKMAZ, N. ASIK, S 2014. Effects of Irrigation with Domestic Treated Wastewater on the Some Soil Chemical Properties. The 18th World Congress of CIGR. Agricultural and Biosystems Engineering- Upgrading the Quality of Our Life. 16-19 September 2014. Behijing- China
33. OZDEN, N., KORKMAZ, N., **GUNDUZ, M.** 2014. Using of Land Information System at The Menemen Right Bank Irrigation System. II. Drought and Desertification Symposium with International Participation. 16-18 September 2014 Konya
34. OZAYDIN, K., +, **GUNDUZ, M.**, +. 2014.Database Design for Evapotranspiration Studies. II. Drought and Desertification Symposium with International Participation. 16-18 September 2014 Konya
35. **GUNDUZ, M.**, KORKMAZ, N., TARI, P. 2012. Determination of Water-Yield Relationships of Cotton by Using Line - Source Sprinkler System. **The International Soil Science Congress on "Land Degradation and Challenges in Sustainable Soil Management" 15-17 May 2012, Volume-II**, p (146-151). Çeşme-İzmir-TURKEY



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▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

1. TARI AKAP, P., **GUNDUZ, M.**, ASIK, S., OZCELIK, S. 2019. Patogenic Contamination On Lettuce And Soil Irrigated By Treated Domestic Waste Water. Toprak Su Journal. special issue p(46-50) Ankara
2. TARI AKAP, P., **GUNDUZ, M.**, ASIK, S., OZCELIK, S. 2019. Patogenic Contamination On Lettuce And Soil Irrigated By Treated Domestic Waste Water. Toprak Su Journal. special issue p(46-50) Ankara
3. KIR, A., TAN, A., AY, N., KORKMAZ, N., **GÜNDÜZ, M.** 2015. Agro-Morphological Characterization of Aegean and Mediterranean Region Landraces of Cowpea [Vigna unguiculata (L.) Walp.] in Turkey. Anadolu Journal of AARI. 25(2) 2015, 1-23
4. **GUNDUZ, M.**, KORKMAZ, N. 2008. Effect of Different Irrigation Applications on Yield and some Quality Properties at Drip Irrigated Vineyard, Anadolu, Journal of Aegean Agricultural Research Institute, 18(1) p,49-65, Turkey

▪ International Papers, Seminars, etc.

1. **GUNDUZ, M.**, TARI AKAP, P. SEN, S., KORKMAZ, N ve OZDEN, N, 2019. Determination of productivity status of agricultural lands south of Gediz River in Menemen Plain. 8. National Plant Nutrition and Fertilizer Congress. Antalya.
2. **GUNDUZ, M.**, KORKMAZ, N. 2014. Comparing of Furrow and Alternate Furrow Irrigation Applications for Corn. 12. National Kulturteknik Symposium. 21-23 May 2014 Tekirdag
3. **GUNDUZ, M.**, **KORKMAZ, N.** 2014. Some of Temporal Variations of Water Quality Indicators at Gediz River Emiralem Regulator. 12. National Kulturteknik Symposium. 21-23 May 2014 Tekirdag
4. KORKMAZ, N., **GUNDUZ, M.** 2014. The Effects of Hydrogel Applications on Soil Moisture Content and Wheat Yield. 12. National Kulturteknik Symposium. 21-23 May 2014 Tekirdag
5. KORKMAZ, N., **GUNDUZ, M.**, ASIK, S. 2014. The Temporal Variation of Ground Water's Depth and Quality in Menemen Left Bank Irrigation Area Near the Sea. 12. National Kulturteknik Symposium. 21-23 May 2014 Tekirdag
6. **GUNDUZ, M.**, KORKMAZ, N. 2013. Determination of Water-Yield Relationships of Cotton by Drip Irrigation System. III. National Land and WaterResourcesCongress. 22-24 October 2013. P (773-779). Tokat
7. **GUNDUZ, M.**, KORKMAZ, N. 2013. Effect of Different Irrigation Applications On Soil Moisture Changes in Root Zone for Drip Irrigated Cotton. III. National Land and WaterResourcesCongress. 22-24 October 2013. P (742-748). Tokat
8. KORKMAZ, N., **GUNDUZ, M.**, S. ASIK, H. B. UNAL, and M. AVCI. 2013. The Water Distribution Performance at Tertiary Canals: A Case Study of the Menemen Irrigation System. III. National Land and Water Resources Congress. 22-24 October 2013. P (789-798). Tokat



9. **GUNDUZ, M., KORKMAZ, N., ŞEN, S.** 2012. Determination of Water-Yield Relationships of Cotton by Using Point - Source Sprinkler System. II. National Irrigation and Agricultural Structures Symposium, Ege University Agriculture Faculty, Department of Irrigation and Agricultural Structures, 24-25 May 2012, İzmir
10. **KORKMAZ, N., GUNDUZ, M., BİLİR, L.** 2012. Drip Irrigation program of Plum in Menemen Plain. II. National Irrigation and Agricultural Structures Symposium, Ege University Agriculture Faculty, Department of Irrigation and Agricultural Structures, 24-25 May 2012, İzmir
11. **GUNDUZ, M., KORKMAZ, N., BİLİR, Z.L., ŞEN, S.** 2011. Effect of Different Irrigation Practices On Peach Fruit Quality and Plant Nutrient Content. II. National Land and Water Resources Congress, 22-25 November 2011. P (1066-1071). Ankara
12. **GUNDUZ, M., KORKMAZ, N., KAYAM, Y., ŞEN, S.** 2011. The Effect of Different Irrigation Water Applications for Wheat on Changes in Root Depth Soil Moisture and Yield. II. National Land and Water Resources Congress, 22-25 November 2011. P (1020-1028). Ankara
13. **GUNDUZ, M., N. KORKMAZ.** 2010. Effects On Growth of Drip Irrigated Peach Trees of Different Water Amounts, I. National Land and Water Resources Congress, p (73-79) Eskisehir
14. **GUNDUZ, M., N. KORKMAZ.** 2010. Effect of Different Irrigation Applications On Soil Moisture Changes in Root Zone for Drip Irrigated Vineyard of First and Last Irrigation Dates. 1. National Land and Water Resources Congress, 1-4 June, p (715-721), 2010 Eskisehir
15. **GUNDUZ, M., N. KORKMAZ., G. YILMAZ.** 2009. Determination of The First Irrigation Time and The Last Irrigation Time of Drip Irrigated Vineyard, 7th Symposium on Viticulture and Technologies, Volume 1, p (119-124). Turkey.
16. **GUNDUZ, M., N. KORKMAZ., S. ŞEN.** 2009. Effect of Different Irrigation Applications On Soil Moisture Changes in Root Zone for Drip Irrigated Vineyard, 7th Symposium on Viticulture and Technologies, Volume 2, p (139-146). Turkey.
17. **GUNDUZ, M., KORKMAZ, N.** 2007. Comparing of Furrow and Alternate Furrow Irrigation Applications for Cotton, III. National Symposium on Water Engineering, 10 to 14 September, p 679-690, Gumuldur-İzmir
18. **KORKMAZ, N., AVCI, M., GUNDUZ, M.** 2007. Performance Evaluation of Irrigation Water Distribution Menemen Left Bank. III. National Symposium on Water Engineering, 10 to 14 September, p 667-678, Gumuldur-İzmir
19. **AKBAS, F., ÖZTÜRK, M., GÜVENSEN, A., GUNDUZ, M.** 1999. Ecology of halophytes Vegetation in Soke Plain, VII. Kulturteknik Congress, p 246-252, Cappadocia
20. **DEĞİRMENCI, V., GUNDUZ, M., KARA, C., BİLGEL, L.** 1999. Determination of the Effect Applied Deficit Irrigation on Cotton Yield in Different Periods, GAP I. Agriculture Congress, Sanliurfa
21. **KARA, C., GUNDUZ, M., SİPAHI, N., CETİN, O.** 1996. Eggplants Water Consumption on Harran Plain Conditions in the GAP region, GAP I. Symposium on Vegetable Crops, Sanliurfa
22. **GUNDUZ, M., KARA, C., BİLGEL, L., DEĞİRMENCI, V.** 1996. Determination of Watermelon Irrigation programme in Harran Plain Conditions in GAP, I. Symposium on Vegetable Crops, Sanliurfa



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▪ OTHER PUBLICATIONS

▪ **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

1. GUNDUZ, M. Irrigation Methods and Irrigation Water Quality. Republic of Turkey Ministry of Agriculture and Forestry. 2021. Ankara
2. ALTAY T., TÜZEL H., TUNALI U., ÖZTEKİN G.B., KIDOĞLU F., KORKMAZ N., **GUNDUZ M.**, ŞEN O.F. Use of Automation and Artificial Neural Networks in Greenhouse Tomato Irrigation, General Directorate of Agricultural Research (UTAEM 2018-02), Project Final Report, Şubat-2018/İzmir
3. CANDAN, N., UNER, K., **GUNDUZ, M.**, KARAGUL, V., UZUN, N., SEN, O.F., ESIYOK, D. 2017. Determination of Effects of N and P fertilizers applied by Fertigation Method on the Yield and Some Quality Characteristics of pepper. General Directorate of Agricultural Research and policy, International Agricultural Research and Training Center. UTAEM 2017-01. Menemen-İzmir
4. SEN, S., KORKMAZ, N., **GUNDUZ, M.**, KAYAM, Y., DOĞAN, Z.A., BİLİR, L VE ASIK.S. 2016. Subsurface Drip Irrigation Program of Cotton and Corn in Aegean Region. General Directorate of Agricultural Research and policy, International Agricultural Research and Training Center.: UTAEM 2016-01. Menemen-İzmir
5. **GUNDUZ, M.**, KORKMAZ, N. SEN, S., BİLİR, L., GÖCMEZ, S., ASIK, S. 2014 Effects of Irrigation Applications with Refined Municipal Wastewater on the Some Soil and Plant Properties. General Directorate of Agricultural Research and policy, International Agricultural Research and Training Center. UTAEM 2014-02. Menemen-İzmir
6. KORKMAZ, N. **GUNDUZ, M.**, ÖZDEN, N., SEN, S., BİLİR, L., ASIK, S., TEKİN, B., GUZELSES, S. 2014. Evaluation of Spatial and Temporal Variation of the Water Table in Menemen Left Bank Irrigation Area Using Geostatistical Methods. General Directorate of Agricultural Research and policy, International Agricultural Research and Training Center. UTAEM 2014-01. Menemen-İzmir
7. KORKMAZ, N., **GUNDUZ, M.**, TARI, P. 2012. Agricultural Irrigation with Treated Municipal Waste Water, Aegean Agricultural Research Institute, 151(27-36), İzmir
8. KORKMAZ, N., KAYAM, Y., **GUNDUZ, M.**, SEN, S., ACAR, C.O., BİLİR, L., AVCI M., ASIK, Ş. VE UNAL, H.B., 2009. Determining The Water Distribution Performance on Farm and Tertiary Canal Level in Menemen Left Bank Irrigation System, Tagem-Bb-Topraksu-2009/72, Turkey
9. KORKMAZ, N., **GUNDUZ, M.**, GÖÇMEZ, S. 2009. Irrigation and Fertilization of Maize, Aegean Agricultural Research Institute, 134(142-157), ISBN 978-975-407-273-0, Menemen, Turkey
10. **GUNDUZ, M.**, KORKMAZ, N., KAYAM, Y., SEN, S. 2008. Comparing of Furrow and Alternate Furrow Irrigation Applications for Cotton, Tagem-Bb-Topraksu-2008/57, İzmir.
11. KORKMAZ, N., **GÜNDÜZ, M.**, SEN, S. 2008. Drip Irrigation's System Design Parameters and Programs of Drip Irrigation, Aegean Agri., Research Inst., 133(161-173), İzmir



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12. KORKMAZ, N., **GUNDUZ, M.**, SEN, S. 2008. The Initial Studies in Design of Drip Irrigation Systems, Aegean Agricultural Research Institute, 132(212-227), Izmir
13. SEN, S., KORKMAZ, N., **GUNDUZ, M.** 2008. Designing of Drip Irrigation Systems. Aegean Agricultural Research Institute, 132(228-242), Izmir
14. **GUNDUZ, M.**, KORKMAZ, N., ŞEN, S. 2008. Water-Yield Relationships of Maize in South Marmara Conditions. TAYEK2008, Field Crops Group Information Meeting, Aegean Agricultural Research Institute. Publication No:132, p (158-175), Menemen
15. **GUNDUZ, M.**, KORKMAZ, N. 2005. Drip Irrigation Program of Vineyard and peaches in Menemen Plain Conditions, Aegean Agricultural Research Institute, Publication No.119, p 124-140, Menemen
16. **GUNDUZ, M.**, KORKMAZ, N., ÜNER, K. 2004. Peaches' Drip Irrigation Program in Aegean Region, GDAR, Publication No: 141
17. KORKMAZ, N., **GUNDUZ, M.** 2004. Irrigation Water Quality and its Effects on Crop Nutrition, Aegean Agricultural Research Institute, Publication No.117, p165-179, Menemen
18. KORKMAZ, N., **GUNDUZ, M.** 2003. The Importance and Design of Drip Irrigation Method, Aegean Agricultural Research Institute, Publication No.113, p57-76, Menemen
19. ÜNER, K., SOKMEN, Ö., **GUNDUZ, M.**, BİLİR, L. 2003. The Requirements of Nitrogenous Fertilizer of Peaches in the Aegean Region, GDRS The Yearbook of Land and Water Resources Research, Publication No. 124, p 221-235, Ankara
20. **GUNDUZ, M.**, KORKMAZ, N. 2003. The Vineyard Irrigation Programme by Drip Irrigation on Gediz Basin Conditions, GDRS The Yearbook of Land and Water Resources Research, Publication No. 121, p 220-234, Ankara
21. BEYAZGUL, M., KAYAM, Y., **GUNDUZ, M.** 2002. Effects of Early Cultivation of cotton by Plastic mulching technique on Water Conservation, Crop Yield and Quality, GDRS The Yearbook of Land and Water Resources Research, Publication No. 119, p 166-181, Ankara
22. **GUNDUZ, M.**, BEYAZGÜL, M. 1999. Relationships Between Yield and Water on Corn on Balıkesir Conditions, GDRS The Yearbook of Land and Water Resources Research, Publication No. 108, p 190-203, Ankara
23. DEĞİRMENCİ, V., **GUNDUZ, M.**, KARA, C. 1999. Relationships Between Yield and Water on Second Crop Corn on The Conditions In The Harran Plain in The GAP Region, GDRS The Yearbook of Land and Water Resources Research, Publication No. 108, p 280-292, Ankara
24. KARA, C., **GUNDUZ, M.** 1998. Determination of the Effect of Deficit Irrigation Application on Cotton Yield on the Conditions of Harran Plain in GAP region, GDRS The Yearbook of Land and Water Resources Research, Publication No. 106, p 285-301, Ankara
25. **GUNDUZ, M.** 1996. The Requirements of Nitrogenous Fertilizer of Second Crop Sunflower in Harran Plain Conditions, (Master's thesis)



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26. KARA, C., **GUNDUZ, M.** 1996. Eggplants Water Consumption on Harran Plain Conditions in the GAP region, Rural Services Research Institute, Publication No. 108, Sanliurfa
27. **GUNDUZ, M.**, KARA, C. 1996. Second Crop Sunflower's Water Consumption in Harran Plain Conditions in GAP Region, Rural Services Research Institute, Publication No. 101, Sanliurfa
28. **GUNDUZ, M.**, KARA, C. 1996. According to Evaporation, Using Class a Pan, Water Consumption of Watermelon on Harran Plain Conditions in GAP Region, Publication No: 107, Sanliurfa, 1996
29. **GUNDUZ, M.**, KARA, C. 1996. Cucumber Production. Crop Breeding Techniques on irrigated Conditions in the GAP region. Prime Ministry Southeastern Anatolia Project Regional Development Administration. p 85-94. Ankara
30. **GUNDUZ, M.**, KARA, C. 1996. Melon Production. Crop Breeding Techniques on irrigated Conditions in the GAP region. Prime Ministry Southeastern Anatolia Project Regional Development Administration. p100-105. Ankara
31. **GUNDUZ, M.**, KARA,C. 1996. Watermelon Production. Crop Breeding Techniques of Water Conditions in the GAP region. Prime Ministry Southeastern Anatolia Project Regional Development Administration. p95-99. Ankara



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▪ Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

1. Introduction to ArcGIS I and II. TAGEM-ESRI
2. 3D Analyst And Spatial Analyst. TAGEM-ESRI
3. Beekeeping Course, AARI
4. WEAP (Water Evaluation and Planning Tool) benzeşim modelinin bilgisayar uygulamaları, Future Water
5. Organic farming, RTMFAL
6. Mission Training, GDRS
7. Irrigation Course, GDRS
8. Water Management, Arizona University -Tucson – ABD
9. Computer Course, IARTHC
10. Impact of Irrigation and Agricultural Management on Environment Quality of Watersheds, GDRS
11. Operation of Computerized Drip Irrigation Systems, Identification of Equipment and Pressurized Irrigation Systems, GDRS
12. Plant Water Consumption and Modeling, GDRS
13. Field Measurement of Soil Properties, GDRS
14. Tools and Equipments Used in Irrigation, Çukurova University
15. Sprinkling and Drip Irrigation Seminar, GDRS
16. Water Management and Computer Modelling, Canterbury University-Christ Church - New Zealand
17. English Course, GDRS
18. New Developments in Irrigation Technology, GDRS
19. Design of Pressurized Irrigation Systems, GDRS
20. Workshop on Computer Applications and Performance Assessment of Irrigations Systems, FAO-GDRS
21. Experimental Statistical Methods, GDRS
22. Seminar on Applications of Climatic Data for Effective Irrigation Planning and Management, GDSHW-GDRS-WMO
23. Advanced Methods in Irrigation Management, GDSHW-GDRS-WMO
24. Construction and Culture Seminar, GDAE
25. New Developments in Irrigation Technology, Çukurova University- GDAE